## REMARKS

Applicant has filed the present amendments and REMARKS in reply to the Office Action of September 29, 2003 and believes that the amendments and REMARKS are fully responsive to the Office Action for reasons set forth herein below in greater detail. Reconsideration of this application is respectfully requested.

In the present Office Action, the Examiner rejected Claims 1-2 under 35 U.S.C. §112, second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter of the invention. Additionally Claims 1-2 stand rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph, as being in narrative form and replete with indefinite and functional or operational language.

Responsive to the Examiner's rejection of Claims 1-2 in this Office Action, Applicant has amended Claims 1-2 and added Claims 3-22. Regarding amended Claim 1, Applicant contends that the invention subject matter is now particularly pointed out and distinctly claimed as required by 35 U.S.C. §112, second paragraph, because the method which Applicant regards as his invention has been specified clearly and affirmatively in a format which Applicant believes is now acceptable to the Examiner.

Regarding Claim 2, In his election of subject matter, Applicant has removed the subject matter of Claim 2. Amended Claim 2 is now in dependent form and applies limitations to amended Claim 1. For the foregoing reasons discussed above with respect to amended Claim 1, Applicant now believes amended Claim 2 is in a format which has overcome the claim rejection based on 35 U.S.C. §112, second paragraph.

Furthermore, Applicant contends that no new matter has been added and that amended Claims 1-2, and the additional Claims 3-22 are fully supported in the specification.

ELECTION/RESTRICTION

With respect to the Election/Restriction requirement, Applicant herewith elects, without traverse, amended Claims 1-2 and new Claims 3-22 directed to the method, computer implemented method, and apparatus for dialing. As noted above, the old Claim 2, specifically directed to call processing in an advanced intelligent network has been removed from this Application. Applicant reserves the right to file a continuation for prosecution of claims specifically directed to the AIN call processing subject matter.

In view of the foregoing, Applicant believes that this application is in condition for allowance and Applicant henceforth respectfully solicits such allowance. If the Examiner believes a telephone conference might expedite the prosecution of this case, Applicant respectfully requests the Examiner to call the undersigned, Applicant at: (516) 799-5097.

Respectfully submitted,

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## VERSION WITH MARKINGS

The following are marked up versions of the amended claims:

**IN THE CLAIMS**

Please amend Claim 1 as follows:

1. (Amended) A telephone dialing method for call completion comprising:

Monitoring and storing a subscriber initiated dial string, and;

Determining whether the subscriber initiated dial string is incomplete, and;

Allowing the subscriber initiated dial string to be placed on the telephone network without further intervention if the subscriber initiated dial string is complete, and;

Parsing together a default dial prefix and the subscriber initiated dial string if the subscriber initiated dial string is incomplete, wherein a complete telephone number with the default dial prefix is created, and;

Placing the complete telephone number, which comprises the default dial prefix and the subscriber initiated dial string, on the telephone network for call completion.

[Apparatus for dialing an area code and phone number dial string when a calling party dials seven or less digits on a telephone network which requires the area code or the area code and additional digits to be dialed as a prefix to the digits dialed by the calling party for call completion, the apparatus remaining quiescent when a calling party dials less than or more than a predetermined number of digits, or any number of digits during the call after the calling party has connected to the called party, unless the calling party has interrupted the call progress to dial a second called party, the apparatus comprising:

A) A telephone line state detector having an input and an output, said line state detector input being connected to the telephone line of the calling party to detect the load impedance on the telephone line of the calling party and to provide an indicating signal of the line load impedance at said line state detector output.

B) A computer processor connected to said output of said line state detector.

C) A DTMF dialer having an input and an output, said DTMF dialer input being connected to said computer processor and said DTMF dialer output being connected to the telephone line of the calling party.

D) A DTMF receiver having an input and an output, said input of said DTMF receiver connected to the telephone line of the calling party, and said output of said DTMF receiver connected to said computer processor.

E) A line interruption circuit having a control input, a line input, and a line output, said control input of said line interruption circuit being connected to said computer processor through circuit isolation means and said line input of said line interruption circuit being connected to the tip and ring connection of the calling party's telephone, and said line output of said line interruption circuit being connected to the tip and ring connection of the telephone line of the calling party.

F) A non-volatile programmable memory circuit means connected to the computer processor for storing the telephone prefix and other user defined options.

G) A random access memory circuit, RAM, means connected to the computer processor for storing digit strings dialed by the calling party.

H) A user interface device means connected to said computer processor for prompting and acknowledging inputs of user options by the calling party to initialize the apparatus of claim 1.

I) Program instruction means residing in said computer processor or said non-volatile programmable memory circuit for detecting off-hook, on-hook, and hook flash line conditions in response to said indicating signal from said line state detector output.

J) Program instruction means residing in said computer processor or said non-volatile programmable memory circuit for controlling said line interruption circuit effecting a flash hook condition on the telephone line.

K) Program instruction means residing in said computer processor or said non-volatile programmable memory circuit for controlling and responding to said DTMF receiver causing digits dialed by the calling party to be recorded in said RAM connected to said computer processor.

L) Program instruction means residing in said computer processor or said non-voltatile programmable memory circuit through flash hook means sub-claim J wherein one flash is effected of duration between 500 and 700 milliseconds for clearing the telephone line in preparation for dialing the prefix and telephone number specified by the calling party.

M) Program instruction means residing in said computer processor or said non-volatile programmable memory circuit for controlling said DTMF dialer, causing said DTMF dialer to dial the complete dial prefix and telephone number of the dial sequence initiated by the calling party.

N) Program instruction means residing in said computer processor or said non-volatile programmable memory circuit through flash hook means sub-claim J wherein in response to flash hook detection means, sub-claim I, three successive flashes are effected, each of duration between 500 and 700 milliseconds, within 250 to 325 milliseconds of each other, for retaining line connection to first called party while dialing second called party through means sub-claim M.

O) Program instruction means residing in said computer processor or said non-volatile programmable memory circuit for selectively inhibiting said DTMF dialer, permitting the calling party to successfully complete dial strings other than a specified number of digits directly to the Central Office without intervention by the apparatus of claim 1.

P) Program instruction means residing in said computer processor or said non-volatile programmable memory circuit for selectively inhibiting said DTMF dialer, permitting the calling party to send dial strings of any length to the called party during a call to the called party without intervention by the apparatus of claim 1.

Q) Program instruction means residing in said computer processor or said non-volatile programmable memory circuit for allowing the calling party to pre-store the dial prefix in said apparatus of claim 1.

R) Program instruction means residing in said computer processor or said non-volatile programmable memory circuit for allowing the calling party to verify through user interface means sub-claim H, the dial prefix pre-stored in sub-claim Q.

S) Program instruction means residing in said computer processor or said non-volatile programmable memory circuit for storing "1 +" dialing user option and "privacy" user option, (*67 or *82), as part of the dial prefix to be dialed through means sub-claim M.]

Please amend Claim 2 as follows:

2. (Amended) The method of Claim 1 wherein the monitoring further comprises listening for DTMF data representing the subscriber initiated dial string.

[A Method for dialing an area code and phone number dial string when a calling party dials seven or less digits on a telephone network which requires the area code or the area code and additional digits to be dialed as a prefix to the digits dialed by the calling party for call completion, remaining quiescent when a calling party dials less than or more than a predetermined number of digits, or any number of digits during the call after the calling party has connected to the called party, unless the calling party has interrupted the call progress to dial a second called party, the method comprising:

a. Programmed instruction means for providing a user options interface allowing user to define a default dialing prefix.

b. Programmed instruction means for notifying user of the default dialing prefix, sub-claim a

c. Programmed instruction means for calculating a specified number of digits dialed by calling party required to activate the method of claim 2 according to the formula

(Specified number of digits = Total number of digits required to complete the call – Number of default dialing prefix digits entered by user, sub-claim a)

d. Programmed instruction means for retrieving the specified number of digits dialed by calling party required to activate the method of claim 2.

e. Programmed instruction means for detecting an off hook , flash hook, or on-hook condition.

f. Programmed instruction means for remaining quiescent until an off hook condition has been sensed.

g. Programmed instruction means for capturing , counting, and temporarily storing dtmf digits dialed by calling party.

h. Programmed instruction means for timing out the programmed instruction means, sub-claim g.

i. Programmed instruction means for appending digits dialed by calling party to the pre-stored prefix digits and temporarily storing the resultant digit sequence if and only if the number of digits dialed by the calling party is equal to the specified number of digits, sub-claim c.

j. Programmed instruction means for placing the resultant digit sequence, sub-claim i on to the Service Provider's network for call completion.

k. Programmed instruction means for placing dtmf digits dialed by calling party, sub-claim g on to the Service Provider's network for call completion if and only if no resultant digit sequence, sub-claim i was stored.

l. Programmed instruction means for remaining quiescent during call progress, sub-claim j, unless a flash hook, or other transition from off-hook, to on-hook, to off-hook, sub-claim e has been detected.

m. Programmed instruction means for re-activating program instruction means sub-claims d through l upon detection of transition from on-hook to off-hook, sub-claim e.

n. The programmed instruction means, sub-claims a through d wherein said programmed instruction means reside and function in the Service Provider's Advanced Intelligent Network Service Control Point, SCP, or other equivalent network element.

o. The programmed instruction means, sub-claims e, f, and g, wherein said programmed instruction means reside and function in the Service Provider's Advanced Intelligent Network Call Control functional area of the Service Switching Point, SSP, or other equivalent network element.

p. The programmed instruction means, sub-claims h and i wherein said programmed instruction means h resides and functions in the Service Provider's Advanced Intelligent Network Intelligent Peripheral, IP, and said programmed instruction means i resides and functions in the Service Provider's Advanced Intelligent Network Service Control Point, SCP.

q. The programmed instruction means, sub-claim j wherein said programmed instruction means reside and function cooperatively between the Service Provider's Advanced Intelligent Network Service Control Point, SCP and said Service Provider's Service Switching Point, SSP, the SCP digitally transmitting said resultant digit sequence, sub-claim j to said SSP upon which said SSP completes the call.

r. The programmed instruction means, sub-claim k wherein said programmed instruction means reside and function cooperatively between the Service Provider's Advanced Intelligent Network Service Control Point, SCP and said Service Provider's Service Switching Point, SSP, the SCP digitally transmitting a null resultant digit sequence, sub-claim k to said SSP upon which said SSP completes the call using only the dtmf digits dialed by the calling party.

s. The programmed instruction means, sub-claims l and m, wherein said programmed instruction means reside and function in the Service Provider's Advanced Intelligent Network Call Control functional area of the Service Switching Point, SSP, or other equivalent network element.]

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Please add Claims 3-22 as follows:

3. (New) The method of Claim 2 wherein the storing further comprises storing only the DTMF data that occurs before timing out of the monitoring.

4. (New) The method of Claim 3 wherein the determining further comprises subtracting a first number of digits captured in the subscriber initiated dial string from a pre-determined number wherein if the result is equal to a second number of digits representing the number of digits contained in the default dial prefix, then the subscriber initiated dial string is incomplete.

5. (New) The method of Claim 1 wherein the parsing further comprises adding a caller id block code.

6. (New) The method of Claim 1 wherein the parsing further comprises adding a caller id send code.

7. (New) The method of Claim 1 wherein the parsing further comprises adding a 1+ dial code.

8. (New) The method of Claim 1 wherein the placing further comprises:

effecting at least one hook switch flash for telephone line interruption, and;

dialing the complete telephone number.

9. (New) In an apparatus for telephone call completion, the apparatus for telephone call completion comprising a computing device, a program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for call completion, said method steps comprising:

Monitoring and storing a subscriber initiated dial string, and;

Determining whether the subscriber initiated dial string is incomplete, and;

Allowing the subscriber initiated dial string to be placed on the telephone network without further intervention if the subscriber initiated dial string is complete, and;

Parsing together a default dial prefix and the subscriber initiated dial string if the subscriber initiated dial string is incomplete, wherein a complete telephone number with the default dial prefix is created, and;

Placing the complete telephone number, which comprises the default dial prefix and the subscriber initiated dial string, on the telephone network for call completion.

10. (New) The method of Claim 9 wherein the monitoring further comprises listening for DTMF data representing the subscriber initiated dial string.

11. (New) The method of Claim 10 wherein the storing further comprises storing only the DTMF data that occurs before timing out of the monitoring.

12. (New) The method of Claim 11 wherein the determining further comprises subtracting a first number of digits captured in the subscriber initiated dial string from a pre-determined number wherein if the result is equal to a second number of digits representing the number of digits contained in the default dial prefix, then the subscriber initiated dial string is incomplete.

13. (New) The method of Claim 9 wherein the parsing further comprises adding a caller id block code.

14. (New) The method of Claim 9 wherein the parsing further comprises adding a caller id send code.

15. (New) The method of Claim 9 wherein the parsing further comprises adding a 1+ dial code.

16. (New) The method of Claim 9 wherein the placing further comprises:

effecting at least one hook switch flash for telephone line interruption, and;

dialing the complete telephone number.

17. (New) An apparatus for telephone call completion, comprising:

means for allowing a user to define a default dialing prefix, and;

means for notifying the user of the default dialing prefix, and;

means for monitoring and storing a subscriber initiated dial string, and;

means for determining whether the subscriber initiated dial string is incomplete, and;

means for allowing the subscriber initiated dial string to be placed on the telephone network without further intervention if the subscriber initiated dial string is complete, and;

means for parsing together the default dialing prefix and the subscriber initiated dial string if the subscriber initiated dial string is incomplete, wherein a complete telephone number with the default dial prefix is created, and;

means for placing the complete telephone number, which comprises the default dial prefix and the subscriber initiated dial string, on the telephone network for call completion.

18. (New) The apparatus of Claim 17 wherein the means for determining further comprises means for subtracting a first number of digits captured in the subscriber initiated dial string from a pre-determined number wherein if the result is equal to a second number of digits representing the number of digits contained in the default dial prefix, then the subscriber initiated dial string is incomplete.

19. (New) The apparatus of Claim 17 wherein the means for parsing further comprises means for adding a caller id block code.

20. (New) The apparatus of Claim 17 wherein the means for parsing further comprises means for adding a caller id send code.

21. (New) The apparatus of Claim 17 wherein the means for parsing further comprises means for adding a 1+ dial code.

22. (New) The apparatus of Claim 17 wherein the means for placing further comprises;

means for effecting at least one hook switch flash for telephone line interruption, and;

means for dialing the complete telephone number.